Journal of Non-Crystalline Solids 129 (1991) 311–312
North-Holland

Author index

Andersson, Ö.H. and K.H. Karlsson, On the bioactivity of silicate glass 129 (1991) 145

Bain, D.L., see Bray 129 (1991) 240
Baucke, F.G.K., Electrochemistry and glass structure 129 (1991) 233
Beall, G.H., Chain silicate glass-ceramics 129 (1991) 163
Blankenbecler, R., J.J. Hagerty, D.N. Pulsifer and G.E. Rindone, Gradient index glasses of macro dimensions and large Δn 129 (1991) 109
Boksay, Z. and J. Rohonczy, Steady state movement of ion in mixed-alkali glasses 129 (1991) 292
Boulton, J.M., see Uhlmann 129 (1991) 76
Bray, P.J., J.F. Emerson, D. Lee, S.A. Feller, D.L. Bain and D.A. Feil, NMR and NQR studies of glass structure 129 (1991) 240
Bruntsch, R., see Hülsenberg 129 (1991) 199
Burckhardt, W., see Feltz 129 (1991) 31

Carl, G., see Höland 129 (1991) 152
Choi, S.-Y. and G.H. Frischat, Influence of crystallization on some properties of ZrF_4–BaF_2–YF_3–AlF_3 glasses 129 (1991) 133
Cipolla Jr, J.W., see Morse 129 (1991) 93

Dimitrov, D., see Kozhukharov 129 (1991) 117
Dimitrov, V., see Samuneva 129 (1991) 54
Dobreva, A., see Gutzow 129 (1991) 266
Dunken, H., Surface chemistry of optical glasses 129 (1991) 64

Ehrt, D. and W. Seeber, Glass for high performance optics and laser technology 129 (1991) 19
Emerson, J.F., see Bray 129 (1991) 240

Feil, D.A., see Bray 129 (1991) 240
Feller, S.A., see Bray 129 (1991) 240
Feltz, A., W. Burckhardt, B. Voigt and D. Linke, Optical glasses for IR transmittance 129 (1991) 31
Frischat, G.H., see Choi 129 (1991) 133

Galeener, F.L., see Wright 129 (1991) 213
Gan, F., Laser spectroscopy of some semiconductor microcrystallites in glass 129 (1991) 299
Gerth, K., Th. Kloss and H.-J. Pohl, Optical and physical properties of a boron crown glass transmitting in the ultraviolet region B 129 (1991) 12
Götz, W., see Höland 129 (1991) 152
Grimley, D.I., see Wright 129 (1991) 213
Gržeta, B., see Tkalčec 129 (1991) 174
Gutzow, I. and A. Dobreva, Structure, thermodynamic properties and cooling rate of glasses 129 (1991) 266

Hagerty, J.J., see Blankenbecler 129 (1991) 109
Hellmold, P., H. Sass, G. Schulz and U. Stuchlik, Some optical properties of enamels 129 (1991) 126
Höland, W., P. Wange, K. Naumann, J. Vogel, G. Carl, C. Jana and W. Götz, Control of phase formation processes in glass-ceramics for medicine and technology 129 (1991) 152
Hulme, R.A., see Wright 129 (1991) 213
Hülsenberg, D. and R. Bruntsch, Glasses and glass-ceramics for application in micromechanics 129 (1991) 199

Ivanković, H., see Tkalčec 129 (1991) 174

Jana, C., see Höland 129 (1991) 152

Kabanov, V.O., see Sedmale 129 (1991) 284
Karlsson, K.H., see Andersson 129 (1991) 145
Kilian, A., see Morse 129 (1991) 93
Klonkowski, A.M. and C.W. Schlaepfer, Cu(II) complexes in organically modified silicate gels 129 (1991) 101
Kloss, Th., see Gerth 129 (1991) 12
Koussa, A., see Uhlmann 129 (1991) 76
Kozhukharov, V., D. Dimitrov and M. Marinov, Investigation of Te–O–Ln thin films obtained by pulsed laser evaporation 129 (1991) 117
Kralchev, St., see Samuneva 129 (1991) 54
Kreidl, N., Phase separation in glasses 129 (1991) 1

Lee, D., see Bray 129 (1991) 240
Leitman, M.J., see Rekhson 129 (1991) 276
Linke, D., see Feltz 129 (1991) 31

Magruder III, R.H., R.A. Weeks, R.A. Zuhr and G. Whichard, Optical absorption of Cu implanted silica 129 (1991) 46
Marinov, M., see Kozhukharov 129 (1991) 117

0022-3093/91/$03.50 © 1991 – Elsevier Science Publishers B.V. (North-Holland)

Martin, S.W., see Wright 129 (1991) 213
Mazurin, O.V., Theory of glass transition: chemical equilibria approach 129 (1991) 259
Morse, T.F., A. Kilian, L. Reinhart, W. Risen Jr and J.W. Cipolla Jr, Aerosol techniques for glass formation 129 (1991) 93

Naumann, K., see Höland 129 (1991) 152
Nofz, M., R. Stösser and F.G. Wihsmann, ESR as a tool to study short range order phenomena in aluminosilicate glasses 129 (1991) 249

Pannhorst, W., see Petzoldt 129 (1991) 191
Petzoldt, J. and W. Pannhorst, Chemistry and structure of glass-ceramic materials for high precision optical applications 129 (1991) 191
Pohl, H.-J., see Gerth 129 (1991) 12
Price, D.L., see Wright 129 (1991) 213
Pulsifer, D.N., see Blankenbecler 129 (1991) 109

Reinhart, L., see Morse 129 (1991) 93
Rekhson, S.M. and M.J. Leitman, Edge effects in a viscoelastic–elastic bead seal 129 (1991) 276
Rindone, G.E., see Blankenbecler 129 (1991) 109
Risen Jr, W., see Morse 129 (1991) 93
Rohonczy, J., see Boksay 129 (1991) 292

Samek, L., see Wasylak 129 (1991) 137
Samuneva, B., St. Kralchev and V. Dimitrov, Structure and optical properties of niobium silicate glasses 129 (1991) 54
Sass, H., see Hellmold 129 (1991) 126
Schlaepfer, C.W., see Kłonkowski 129 (1991) 101
Schulz, G., see Hellmold 129 (1991) 126
Sedmale, G., J. Vaivads, U. Sedmalis, V.O. Kabanov and O.V. Yanush, Formation of borophosphate glass structure within the system $BaO–B_2O_3–P_2O_5$ 129 (1991) 284
Sedmalis, U., see Sedmale 129 (1991) 284
Seeber, W., see Ehrt 129 (1991) 19
Silin, A.R., Light-induced ionic processes in optical oxide glasses 129 (1991) 40
Sinclair, R.N., see Wright 129 (1991) 213
Stösser, R., see Nofz 129 (1991) 249
Stuchlik, U., see Hellmold 129 (1991) 126
Subramanian, R.S., see Weinberg 129 (1991) 206

Teowee, G., see Uhlmann 129 (1991) 76
Tkalčec, E., H. Ivanković and B. Gržeta, Crystallization of high-quartz solid solution in gahnite glass-ceramics 129 (1991) 174

Uhlmann, D.R., B.J.J. Zelinski, G. Teowee, J.M. Boulton and A. Koussa, Wet chemical synthesis of bulk optical materials 129 (1991) 76

Vaivads, J., see Sedmale 129 (1991) 284
Vogel, J., see Höland 129 (1991) 152
Voigt, B., see Feltz 129 (1991) 31

Wange, P., see Höland 129 (1991) 152
Wasylak, J. and L. Samek, Structural aspects of fluorozirconate glasses and some of their properties 129 (1991) 137
Weeks, R.A., see Magruder III 129 (1991) 46
Weinberg, M.C. and R.S. Subramanian, Containerless measurement of liquid–liquid surface tension of a demixing lead borate composition in space 129 (1991) 206
Whichard, G., see Magruder III 129 (1991) 46
Wihsmann, F.G., see Nofz 129 (1991) 249
Wright, A.C., R.A. Hulme, D.I. Grimley, R.N. Sinclair, S.W. Martin, D.L. Price and F.L. Galeener, The structure of some simple amorphous network solids revisited 129 (1991) 213

Yanush, O.V., see Sedmale 129 (1991) 284

Zanotto, E.D., Surface crystallization kinetics in soda–lime–silica glasses 129 (1991) 183
Zelinski, B.J.J., see Uhlmann 129 (1991) 76
Zuhr, R.A., see Magruder III 129 (1991) 46

Journal of Non-Crystalline Solids 129 (1991) 313–315
North-Holland

Subject index

Alloys
Optical Properties, Quantum Wells 129 (1991) 299

Borates
Nuclear Magnetic Resonance, Nuclear Quadrupole Resonances, Structure, Silicates 129 (1991) 240
Structure, Phosphates, Crystallization 129 (1991) 284

Chalcogenides
Optical Properties, Infra-red Absorption 129 (1991) 31

Crystallization
Fluorides, Nucleation, Thermal Properties 129 (1991) 133
Glass Ceramics, Silicates 129 (1991) 174
Silicates, Surface Properties 129 (1991) 183
Structure, Borates, Phosphates 129 (1991) 284

Defects
Lasers, Structure, Density 129 (1991) 40

Density
Defects, Lasers, Structure 129 (1991) 40

Doping
Fibers, Lasers, Glass Formation 129 (1991) 93

Elastic Properties
Glass Ceramics, Silicates, Fracture 129 (1991) 163
Viscosity, Theory 129 (1991) 276

Electrochemical Properties
Structure, Silicates 129 (1991) 233

Electron Microscopy
Thin Films, Lasers, Oxides, XPS, X-ray Emission 129 (1991) 117

Electron Spin Resonance
Silicates, Short-Range Order 129 (1991) 249

Etching
Gallium Phosphide, Silicates, Photoinduced Effects 129 (1991) 199

Fibers
Doping, Lasers, Glass Formation 129 (1991) 93

Fluorides
Crystallization, Nucleation, Thermal Properties 129 (1991) 133
Structure, Raman Spectra 129 (1991) 137

Fracture
Glass Ceramics, Silicates, Elastic Properties 129 (1991) 163

Gallium Phosphide
Silicates, Photoinduced Effects, Etching 129 (1991) 199

Glass Ceramics
Phase Transition, Silicates 129 (1991) 152
Silicates, Crystallization 129 (1991) 174
Silicates, Fracture, Elastic Properties 129 (1991) 163
Silicates, Phosphates, Sol–Gel Processes 129 (1991) 145
Silicates, Thermal Properties 129 (1991) 191

Glass Formation
Fibers, Doping, Lasers 129 (1991) 93

Glass Surface
Surface Analysis, Silicates, Infra-red Absorption 129 (1991) 64

Glass Transition
Theory, Oxides 129 (1991) 259

Glasses Containing Transition Metal Ions
Optical Properties, Reflectivity, Oxides 129 (1991) 126
Sol–Gel Processes, Structure 129 (1991) 101

Gradient Index
Refractive Index, Optical Properties 129 (1991) 109

Infra-red Absorption
Chalcogenides, Optical Properties 129 (1991) 31
Glass Surface, Surface Analysis, Silicates 129 (1991) 64

Ion Implantation
Optical Properties, Silica 129 (1991) 46

Ionic Conductivity
Mixed-alkali Effect, Structure, Theory 129 (1991) 292

Lasers
Defects, Structure, Density 129 (1991) 40
Fibers, Doping, Glass Formation 129 (1991) 93

0022-3093/91/$03.50 © 1991 – Elsevier Science Publishers B.V. (North-Holland)

Thin Films, Oxides, XPS, X-ray Emission, Electron Microscopy 129 (1991) 117

Metallic Glasses
Structure, Thermodynamics 129 (1991) 266

Mixed-alkali Effect
Ionic Conductivity, Structure, Theory 129 (1991) 292

Neutron Diffraction
Structure, Oxides 129 (1991) 213

Nuclear Magnetic Resonance
Nuclear Quadrupole Resonances, Structure, Borates, Silicates 129 (1991) 240

Nuclear Quadrupole Resonances
Nuclear Magnetic Resonance, Structure, Borates, Silicates 129 (1991) 240

Nucleation
Fluorides, Crystallization, Thermal Properties 129 (1991) 133

Optical Properties
Chalcogenides, Infra-red Absorption 129 (1991) 31
Glasses Containing Transition Metal Ions, Reflectivity, Oxides 129 (1991) 126
Ion Implantation, Silica 129 (1991) 46
Oxides, Silicates, Ultraviolet Absorption 129 (1991) 12
Oxides, Ultraviolet Absorption, Phosphates 129 (1991) 19
Quantum Wells, Alloys 129 (1991) 299
Refractive Index, Gradient Index 129 (1991) 109
Silicates, Structure, Oxides 129 (1991) 54
Sol–Gel Processes, Oxides, Silicates 129 (1991) 76

Oxides
Glass Transition, Theory 129 (1991) 259
Optical Properties, Glasses Containing Transition Metal Ions, Reflectivity 129 (1991) 126
Optical Properties, Silicates, Structure 129 (1991) 54
Optical Properties, Silicates, Ultraviolet Absorption 129 (1991) 12
Optical Properties, Ultraviolet Absorption, Phosphates 129 (1991) 19
Sol–Gel Processes, Optical Properties, Silicates 129 (1991) 76
Structure, Neutron Diffraction 129 (1991) 213
Thin Films, Lasers, XPS, X-ray Emission, Electron Microscopy 129 (1991) 117

Phase Separation
Phase Transition, Thermodynamics, Silicates 129 (1991) 1

Phase Transition
Glass Ceramics, Silicates 129 (1991) 152
Phase Separation, Thermodynamics, Silicates 129 (1991) 1

Phosphates
Optical Properties, Oxides, Ultraviolet Absorption 129 (1991) 19
Silicates, Glass Ceramics, Sol–Gel Processes 129 (1991) 145
Structure, Borates, Crystallization 129 (1991) 284

Photoinduced Effects
Gallium Phosphide, Silicates, Etching 129 (1991) 199

Quantum Wells
Optical Properties, Alloys 129 (1991) 299

Raman Spectra
Fluorides, Structure 129 (1991) 137

Reflectivity
Optical Properties, Glasses Containing Transition Metal Ions, Oxides 129 (1991) 126

Refractive Index
Optical Properties, Gradient Index 129 (1991) 109

Short-Range Order
Electron Spin Resonance, Silicates 129 (1991) 249

Silica
Ion Implantation, Optical Properties 129 (1991) 46

Silicates
Crystallization, Surface Properties 129 (1991) 183
Electrochemical Properties, Structure 129 (1991) 233
Electron Spin Resonance, Short-Range Order 129 (1991) 249
Gallium Phosphide, Photoinduced Effects, Etching 129 (1991) 199
Glass Ceramics, Crystallization 129 (1991) 174
Glass Ceramics, Fracture, Elastic Properties 129 (1991) 163
Glass Ceramics, Phase Transition 129 (1991) 152
Glass Ceramics, Thermal Properties 129 (1991) 191
Glass Surface, Surface Analysis, Infra-red Absorption 129 (1991) 64
Nuclear Magnetic Resonance, Nuclear Quadrupole Resonances, Structure, Borates 129 (1991) 240
Optical Properties, Oxides, Ultraviolet Absorption 129 (1991) 12
Optical Properties, Structure, Oxides 129 (1991) 54
Phase Separation, Phase Transition, Thermodynamics 129 (1991) 1
Phosphates, Glass Ceramics, Sol–Gel Processes 129 (1991) 145
Sol–Gel Processes, Optical Properties, Oxides 129 (1991) 76

Sol–Gel Processes
Glasses Containing Transition Metal Ions, Structure 129 (1991) 101

Optical Properties, Oxides, Silicates 129 (1991) 76
Silicates, Phosphates, Glass Ceramics 129 (1991) 145

Structure
Borates, Phosphates, Crystallization 129 (1991) 284
Defects, Lasers, Density 129 (1991) 40
Electrochemical Properties, Silicates 129 (1991) 233
Fluorides, Raman Spectra 129 (1991) 137
Ionic Conductivity, Mixed-alkali Effect, Theory 129 (1991) 292
Neutron Diffraction, Oxides 129 (1991) 213
Nuclear Magnetic Resonance, Nuclear Quadrupole Resonances, Borates, Silicates 129 (1991) 240
Optical Properties, Silicates, Oxides 129 (1991) 54
Sol–Gel Processes, Glasses Containing Transition Metal Ions 129 (1991) 101
Thermodynamics, Metallic Glasses 129 (1991) 266

Surface Analysis
Glass Surface, Silicates, Infra-red Absorption 129 (1991) 64

Surface Properties
Crystallization, Silicates 129 (1991) 183

Theory
Glass Transition, Oxides 129 (1991) 259
Ionic Conductivity, Mixed-alkali Effect, Structure 129 (1991) 292
Viscosity, Elastic Properties 129 (1991) 276

Thermal Properties
Fluorides, Crystallization, Nucleation 129 (1991) 133
Glass Ceramics, Silicates 129 (1991) 191

Thermodynamics
Phase Separation, Phase Transition, Silicates 129 (1991) 1
Structure, Metallic Glasses 129 (1991) 266

Thin Films
Lasers, Oxides, XPS, X-ray Emission, Electron Microscopy 129 (1991) 117

Ultraviolet Absorption
Optical Properties, Oxides, Phosphates 129 (1991) 19
Optical Properties, Oxides, Silicates 129 (1991) 12

Viscosity
Elastic Properties, Theory 129 (1991) 276

X-ray Emission
Thin Films, Lasers, Oxides, XPS, Electron Microscopy 129 (1991) 117

XPS
Thin Films, Lasers, Oxides, X-ray Emission, Electron Microscopy 129 (1991) 117